

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MITIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

APPENDIX C

DISTRICT 2 DOCUMENTATION

Meeting Sign-in Sheets
Meeting Minutes
Survey Results
Mitigation Projects

NORTH-CENTRAL MONTANA JURISDICTIONS

Blackfeet Reservation
Blaine County
Cascade County
Chouteau County
Fort Belknap Reservation
Glacier County
Hill County
Liberty County
Pondera County
Rocky Boy's Reservation
Teton County
Toole County

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MTIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

Meeting Sign-in Sheets

MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE MEETING

DATE: 3/14/07

LOCATION: Cut Bank - District 2

Name	Affiliation/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
JoVon J. Fisher	Browning Fire Dept. / Senior Fireman	64	flaminfisher@yahoo.com
Cameron Boggs Jr.	Browning Fire Dept. / Senior Fireman	64	Boggs@yahoo.com
Patricia Stranach	Babb/St. Mary V.F.D.	75	babbsstmary.vfd@starband.net
Jim King	Glacier County DES	2	jimdesking@netcogre.net
D Bacon	Center for Mental Health	4	dbacon_59427@yahoo
Laura Christians	DPHHS / Child and Family Services	12	lchristians@mt.gov
Peaty Heer	Acting ^{Hi-Line Rec.} Director	100	tlcrec@bresnan.net
Damon Bunting	Glacier County Extension	2	dbunting@montana.edu
Gawine R. Crane	Case Mgr. - ^{mental health} Center	1	
Arnica Ziebarth	Case Mgr. - Mental Hth Ctr	1	
Daphne Digrindakis	Tetra Tech		daphne.digrindakis@tetra.tech.com
James Laidlaw	Glacier County EMS	1	chiefe@glacierems.com

Meeting State Time: 1:00 pm

Meeting End Time: 3:00 pm

MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE MEETING

DATE: 3/15/07

LOCATION: Haure - District 2

Name	Affiliation/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
Daphne Digrindakis	Tetra Tech		daphne.digrindakis@tetra-tech.com
Haley Gustitis	Blaine Co DES	40 miles	hgustitis@co.blaine.mt.gov
Vic Miller	Blaine County Commissioner	40 miles	vmiller@co.blaine.mt.gov
LARRY B. AKERS	TETRA TECH	300 miles	alpha6@ixi.net
SHARON L. LAVEN	MSU-NORTHERN	6 miles	CAVEN@MSUN.EDU
SUSAN SWAN	MSU-NORTHERN	6 MILES	SWANS@MSUN.EDU
Jerry Otto	Road Supervisor	1000 Feet	Hillco 1405@hotmail.com
Clay Vincent	Health Sanitation	6 mi	vincentc@co.hill.mt.us
Michael Wendland	Commissioner		
Ron Knudson	DES	2	Knudsonr@co.hill.mt.us
Kathy Bessette	Hill County Commission	20 miles	bessettek@co.hill.mt.us
Paul Nugent	Hill co. SAR	1 mile	Nugent@co.Hill.mt.us

Meeting State Time: 11:00

Meeting End Time: 1:15 pm

MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE MEETING

DATE: 3/15/07

LOCATION: Haure - District 2

Name	Affiliation/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
JAMIESON ROSS	HAIR CO. S/PROP-	ACROSS THE HALL	ROSS@HAIRCO.CI.HAURE.MT.US

Meeting State Time: 11:00 am

Meeting End Time: 1:15 pm

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MTIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

Meeting Minutes

**UPDATE TO THE STATE OF MONTANA PDM
PLAN AND HAZARD ASSESSMENT
PUBLIC MEETING MINUTES**

Date: Monday, March 14, 2007

Time: 1:00 pm – 3:00 pm

Place: Cut Bank, Montana

Meeting Attendance:

JoVon J. Fisher, Browning Fire Department Senior Fireman
Cameron Boggs Jr., Browning Fire Department Senior Fireman
Patrick Stranad, Babb/St. Mary Volunteer Fire Department
Jim King, Glacier County DES
D. Baron, Center for Mental Health
Laura Christiaens, DPHHS/Child and Family Services
Patty Geer, Acting Director Hi-Line Recreation
Damon Burtling, Glacier County Extension Office
Laurine R. Crane, Case Manager - Mental Health Center
Arnica Ziebarth, Case Manager - Mental Health Center
James Laidlaw, Glacier County EMS
Kent Atwood, State of Montana – DES
Larry Akers, Contractor
Daphne Digrindakis, Contractor

ASSESSMENT OF HAZARDS – DISTRICT 2

Drought

Glacier – High
Toole – High
Liberty – High
Hill – Change from Low to High
Blaine – Change from Low to High
Pondera – High
Teton – Medium
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – Change from Medium to High (Polson meeting)
Rocky Boy's Reservation – Change from Low to High
Fort Belknap Reservation - Change from Low to High

Participants questioned why the Blackfeet Reservation has a medium risk rating when Glacier County has a high risk rating. Some felt the medium rating was accurate as the west side of Glacier County receives more moisture than the east side which is in the rain shadow of the Rocky Mountains.

It was also suggested that Hill and Blaine counties and the Rocky Boy's and Fort Belknap reservations have their risk rating upgraded from low to high.

Earthquake

Glacier – Low

Toole – Low

Liberty – Not Assessed

Hill – Low

Blaine – Low

Pondera – Low

Teton – Change from Medium to Low

Choteau – No approved plan

Cascade – No approved plan

Blackfeet Reservation – Low

Rocky Boy's Reservation – Low

Fort Belknap Reservation – Low

Participants suggested that Teton County should have a low risk rating for an earthquake rather than medium risk.

Flood

Glacier – High

Toole – High

Liberty – Medium

Hill – High

Blaine – High

Pondera – Change from High to Medium (Polson meeting)

Teton – High

Choteau – No approved plan

Cascade – No approved plan

Blackfeet Reservation – High

Rocky Boy's Reservation – High

Fort Belknap Reservation – Low

Participants discussed the medium risk rating for Liberty County and asked if this rating was still accurate. It was concluded that the medium rating was probably correct.

Hazardous Material Incident

Glacier – Change from Not Assessed to Medium

Toole – Change from Low to Medium

Liberty – Medium

Hill – Medium

Blaine – Medium

Pondera – Not Assessed

Teton – Not Assessed

Choteau – No approved plan

Cascade – No approved plan
Blackfeet Reservation – Medium
Rocky Boy’s Reservation – Low
Fort Belknap Reservation – Medium

Participants suggested that Glacier County should be at medium risk for Hazardous Material Incidents as Highway 2 and the railroad run through the county. Toole County should also be upgraded to medium as this county has Interstate 15, Highway 2 and railroad transportation corridors.

Landslide

Glacier – Low
Toole – Not Assessed
Liberty – Not Assessed
Hill – Not Assessed
Blaine – Not Assessed
Pondera – Low
Teton – Low
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – Change from Not Assessed to Low
Rocky Boy’s Reservation – Not Assessed
Fort Belknap Reservation – Not Assessed

Participants discussed that the low risk rating for Glacier County is probably accurate; however, a few spots near Glacier National Park were noted as exceptions. The Blackfeet Reservation should also be changed from not assessed to low risk for landslides.

Severe Thunderstorms, Hail, Wind and Tornadoes

Glacier – High
Toole – High
Liberty – High
Hill – High
Blaine – High
Pondera – High
Teton – Change from Medium to High
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – High
Rocky Boy’s Reservation – Change from Medium to High
Fort Belknap Reservation – Change from Medium to High

Discussion suggested that Rocky Boy’s and Fort Belknap reservations be upgraded from medium to high risk for severe weather as the corresponding counties of Hill and Blaine

have high risk ratings. Teton County is also rated as medium whereas the surrounding counties are rated as high risk.

Terrorism and Violence

Glacier – Change from Not Assessed to Medium

Toole – Not Assessed

Liberty – Not Assessed

Hill – Medium

Blaine – Medium

Pondera – Not Assessed

Teton – Low

Choteau – No approved plan

Cascade – No approved plan

Blackfeet Reservation – Low

Rocky Boy's Reservation – Low

Fort Belknap Reservation – Low

Participants questioned why Glacier, Toole, Liberty and Pondera counties did not assess this hazard considering the international boundary. It was suggested that Glacier County upgrade to medium risk as the boundary and Glacier National Park are within this county.

The hazard discussion also questioned if terrorism and violence should be split into separate hazards. Glacier County did not assess Terrorism and Violence since the county has no violence in its history. Consequently, terrorism in Glacier County was rated as medium but violence was rated as low. Other terrorist activities could include arson resulting in wildfires and the destruction of dams that would result in inundation flooding.

Volcanic Eruption

Glacier – Low

Toole – Low

Liberty – Not Assessed

Hill – Not Assessed

Blaine – Not Assessed

Pondera – Low

Teton – Not Assessed

Choteau – No approved plan

Cascade – No approved plan

Blackfeet Reservation – Not Assessed

Rocky Boy's Reservation – Not Assessed

Fort Belknap Reservation – Not Assessed

Risk discussion concluded that low ratings were appropriate. Possible ashfall from the Cascade Mountains was noted and the Yellowstone Caldera was cited as a low hazard.

Wildfire

Glacier – High
Toole – High
Liberty – High
Hill – High
Blaine – High
Pondera – High
Teton – High
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – High
Rocky Boy’s Reservation – High
Fort Belknap Reservation – High

Participants suggested no changes for the Wildfire hazard.

Winterstorms

Glacier – High
Toole – High
Liberty – High
Hill – High
Blaine – High
Pondera – High
Teton – Medium
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – High
Rocky Boy’s Reservation – High
Fort Belknap Reservation – High

Participants suggested no changes for the Winterstorms hazard.

ASSESSMENT OF STATE GOALS – DISTRICT 2

Goal 1: Maximize the use of mitigation actions that prevent losses from all hazards.

Goal 2: Increase State’s capability to provide mitigation opportunities.

Goal 3: Mitigate the potential loss of life and property from flooding.

It was suggested that Browning (Willow Creek) and sheet flow flood problem could generate a PDMC project for the Blackfeet Reservation. Additionally, dam failure is an issue for the Blackfeet Reservation and Glacier County. The Swift Dam (Birch Creek), owned by the Bureau of Reclamation, needs an early warning system. Sherburne Dam may also need an early warning system.

Goal 4: Reduce the community impacts of wildland and rangeland fires.

The Blackfeet Reservation has many wildfire mitigation projects that are still viable.

Glacier County has projects that promote best management practices for crop and rangeland, and the development of defensible space around buildings.

Goal 5: Reduce potential earthquake losses in Western Montana.

Glacier County has tie down, shatterproof window film and earthquake awareness projects. These projects are also viable for windstorm damage and violence (i.e., kids throwing rocks against school windows).

Goal 6: Minimize economic impacts of drought.

Blackfeet Reservation has two drought projects and Glacier County has one that concerns the improvement of water intake.

Goal 7: Reduce impacts from severe winter weather.

Blackfeet Reservation has many viable winterstorm projects. Glacier County has several projects; however, none were identified as necessary.

Goal 8: Encourage mitigation of potentially devastating but historically less frequent hazards.

OTHER COMMENTS

The counties suggested that an e-mail with updated hazard ratings be sent to DES County/Tribal Coordinators. The coordinators would present changes for approval during LEPC and TERC meetings.

Counties see a difference in PDM plans written by counties and tribes versus contractors in that counties/tribes more accurately portray their risks. This may indicate a lack of communication between the public and contractors.

For Glacier County, the Severe Thunderstorms, Hail, Wind and Tornadoes hazard and the Winterstorm hazard are tied for the top goal. These hazards need to be recognized as separate hazards. Drought and Wildfire hazards are tied for second on the goal list.

**UPDATE TO THE STATE OF MONTANA PDM
PLAN AND HAZARD ASSESSMENT
PUBLIC MEETING MINUTES**

Date: Monday, March 15, 2007

Time: 11:03 am – 1:18 pm

Place: Havre, Montana

Meeting Attendance:

Haley Gustitis, Blaine County DES
Vic Miller, Blaine County Commissioner
Sharon L. Caven, MSU-Northern
Susan Swan, MSU-Northern
Jerry Otto, Hill County Roads Supervisor
Clay Vincent, Hill County Health Sanitation
Michael Wendland, Commissioner Hill County
Ron Knudson, Hill County DES
Kathy Bessette, Hill County Commission
Paul Nugent, Hill County SAR
Jamieson Ross, Hill County Sheriff
Kent Atwood, State of Montana – DES
Larry Akers, Contractor
Daphne Digrindakis, Contractor

HAZARDS AFFECTING DISTRICT 2

Meeting Discussion on Hazards Affecting District 2

Possible addition of Biological and Communicable Disease hazard. This could take the form of animal and/or human virus and bacteria. This hazard could destroy the entire economy of Hill County. Some examples are hoof and mouth disease, brucellosis, SARS, bird flu, West Nile virus and chronic wasting disease.

Possible addition of radiological hazard. There is a lot of oil and gas drilling and usage, storage and disposal of radiological material in the district. This could be included in the Hazardous Material Incident hazard.

ASSESSMENT OF HAZARDS – DISTRICT 2

Drought

Glacier – High

Toole – High

Liberty – High

Hill – Change from Low to High

Blaine – Change from Low to High

Pondera – High

Teton – Medium
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – High
Rocky Boy's Reservation – Change from Low to High
Fort Belknap Reservation - Change from Low to High

During the drought discussion, concern was expressed over the St. Mary's project. Many small jurisdictions depend on it for the primary part of their drinking water. Could PDMC help with St. Mary's? Counties were told that the PDMC could not assist as the Bureau of Reclamation owns the St. Mary's canal system. However, PDMC could fund development of alternative water sources.

Counties suggested the addition of a major goal to the State Plan that included the development of alternative water resources and/or the development of conservation measures along the Milk River drainage system. Projects could include terracing state, county or city land to retain water and state built and developed retention/detention facilities. Goals and Objectives or State Strategy should include the development of State-owned reservoirs and smaller check dams, and better management of the Missouri and Yellowstone water resources. Participants felt that too much water is being let out of Fresno Reservoir to flow down the Milk River. Overall, the Drought hazard needs to be elevated to a much higher goal priority in the State Plan.

Earthquake

Glacier – Low
Toole – Low
Liberty – Not Assessed
Hill – Low
Blaine – Low
Pondera – Low
Teton – Change from Medium to Low (during Cut Bank meeting)
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – Low
Rocky Boy's Reservation – Low
Fort Belknap Reservation – Low

Counties noted that an earthquake in the seismic belt, to the west, could affect some critical facilities.

Flood

Glacier – High
Toole – High
Liberty – Medium
Hill – High
Blaine – High

Pondera – Medium
Teton – High
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – High
Rocky Boy’s Reservation – High
Fort Belknap Reservation – Low

Counties discussed the need for mechanisms to retain flood waters to aid in drought reduction. This could take the form of small retention and detention structures. Specifically, a retention and/or detention pond structure is needed at the Milk River Bridge, 32 miles north of Havre.

Hazardous Material Incident

Glacier – Change from Not Assessed to Medium (Cut Bank meeting)
Toole – Change from Low to Medium (Cut Bank meeting)
Liberty – Medium
Hill – Change from Medium to High
Blaine – Change from Medium to High
Pondera – Not Assessed
Teton – Not Assessed
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – Medium
Rocky Boy’s Reservation – Low
Fort Belknap Reservation – Medium

Counties discussed the need for Blaine and Hill counties to be rated high for Hazardous Material Incidents due to the presence of railroad and transportation corridors, and international traffic from Canada. A large number of HAZMAT containers travel along the transportation corridors. Hill County expressed concern over the high number of HAZMAT incidents in Blaine County that have occurred in the past. It was also noted that nuclear waste may be transported through the district in the future.

Landslide

Glacier – Low
Toole – Not Assessed
Liberty – Not Assessed
Hill – Not Assessed
Blaine – Not Assessed
Pondera – Low
Teton – Low
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – Change from Not Assessed to Low (Cut Bank meeting)
Rocky Boy’s Reservation – Not Assessed

Fort Belknap Reservation – Not Assessed

No changes were noted for the Landslide hazard.

Severe Thunderstorms, Hail, Wind and Tornadoes

Glacier – High

Toole – High

Liberty – High

Hill – High

Blaine – High

Pondera – High

Teton – Change from Medium to High (Cut Bank meeting)

Choteau – No approved plan

Cascade – No approved plan

Blackfeet Reservation – High

Rocky Boy's Reservation – Change from Medium to High (Cut Bank meeting)

Fort Belknap Reservation – Change from Medium to High (Cut Bank meeting)

Counties suggested that Rocky Boy and Fort Belknap reservations and Teton County should be upgraded to high risk for this hazard.

Terrorism and Violence

Glacier – Change from Not Assessed to Medium (Cut Bank meeting)

Toole – Not Assessed

Liberty – Not Assessed

Hill – Medium

Blaine – Medium

Pondera – Not Assessed

Teton – Low

Choteau – No approved plan

Cascade – No approved plan

Blackfeet Reservation – Low

Rocky Boy's Reservation – Low

Fort Belknap Reservation – Low

Participants noted that Hill and Blaine counties stand out as medium risk when the rest of District 2 is low or not assessed. Hill County was ranked as medium due to the college riots that occurred in the early 1970s at MSU Northern. Hill and Blaine counties each have a Canadian border crossing so the potential for this hazard exists. Jail statistics in Hill County demonstrate that illegal aliens have been picked up by the Border Patrol and this is an issue in the Highline. The counties felt that there is no need to split Terrorism and Violence into separate hazards.

Volcanic Eruption

Glacier – Low

Toole – Low

Liberty – Not Assessed
Hill – Not Assessed
Blaine – Not Assessed
Pondera – Low
Teton – Not Assessed
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – Not Assessed
Rocky Boy’s Reservation – Not Assessed
Fort Belknap Reservation – Not Assessed

Participants noted that the entire state should probably be rated as low risk for this hazard. However, it was acknowledged that air quality is still a hazard due to secondary effects of other natural disasters. It was noted that ash fall could still be affecting the quality of air in Hill and Blaine counties.

Wildfire

Glacier – High
Toole – High
Liberty – High
Hill – High
Blaine – High
Pondera – High
Teton – High
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – High
Rocky Boy’s Reservation – High
Fort Belknap Reservation – High

Counties agreed with the high risk rating for wildfire.

Winterstorms

Glacier – High
Toole – High
Liberty – High
Hill – High
Blaine – High
Pondera – High
Teton – Medium
Choteau – No approved plan
Cascade – No approved plan
Blackfeet Reservation – High
Rocky Boy’s Reservation – High
Fort Belknap Reservation – High

Counties agreed with risk rating for this hazard.

ASSESSMENT OF STATE GOALS – DISTRICT 2

Goal 1: Maximize the use of mitigation actions that prevent losses from all hazards.

Goal 2: Increase State’s capability to provide mitigation opportunities.

Goal 3: Mitigate the potential loss of life and property from flooding.

Blaine County discussed their need to re-examine their flood projects. The project that concerned mitigation options for homes repeatedly flooded along Thirtymile Creek (North Chinook and North Harlem) is still a valid project. Mitigation options include acquisition or relocation; there are many potential acquisitions and a few relocation PDMC projects. Additionally, culverts have been identified that are too small to handle flood waters.

Hill County discussed the need to add a project that concerns the construction of a retention or detention pond to Cottonwood Bridge on the Milk River. The existing bridge has serious silt buildup and erosion problems. The State Strategy should include a project to expand the wetlands below the Cottonwood Bridge with the construction of a detention pond. Participants noted that if the bridge fails, a couple of Hutterite colonies would be cut off and international border traffic would stop. It was suggested that the Border Patrol might fund part of the bridge repair since they use the road up to the border crossing.

Goal 4: Reduce the community impacts of wildland and rangeland fires.

Blaine and Hill counties have many projects aimed at the reduction of fuel loads. Some of these projects are currently ongoing.

Goal 5: Reduce potential earthquake losses in Western Montana.

Currently, Blaine and Hill counties do not have earthquake mitigation projects and county participants did not suggest any projects needed to be added.

Goal 6: Minimize economic impacts of drought.

Blaine and Hill counties have drought projects listed under Wildfire mitigation projects.

Goal 7: Reduce impacts from severe winter weather.

No mitigation projects have been written for Blaine and Hill counties. However, county participants noted that Rocky Boy’s and Fort Belknap reservations have several good projects. Areas of concern include mass sheltering, feeding and care of people during blizzards and severe winterstorms. Hill County noted that it is difficult to identify a “Special Needs” population as these people tend not to come forward for identification. Additionally, it was noted that a winterstorm awareness campaign is needed.

Goal 8: Encourage mitigation of potentially devastating but historically less frequent hazards.

Counties discussed the need to separate the less frequent hazards, particularly Severe Thunderstorms, Hail, Wind and Tornadoes as this hazard is a high risk for District 2.

Blaine and Hill counties also discussed the fact that they have HAZMAT equipment, train derailment warning system, etc., but they do not have PDMC type eligible projects. They inquired if PDMC would fund a project to install a dam warning system for a county owned dam. Additionally, they suggested that the National Weather Service or MT-DNRC Dam Safety Program be contacted about funding for a satellite feed.

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MTIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

On-Line Survey Results

What jurisdiction type do you represent?			
		Response Percent	Response Count
Federal	<div><div></div></div>	13.6%	3
State	<div><div></div></div>	4.6%	1
County	<div><div></div></div>	45.5%	10
Tribal	<div><div></div></div>	13.6%	3
Public Utility	<div><div></div></div>	9.1%	2
General Public		0.0%	0
Other (please specify)	<div><div></div></div>	18.2%	4
answered question			22
skipped question			0

What County/Tribal Community do you represent or as a private citizen where do you live?			
		Response Percent	Response Count
Blackfeet	<div><div></div></div>	4.6%	1
Crow		0.0%	0
Flathead		0.0%	0
Fort Belknap		0.0%	0
Fort Peck		0.0%	0
Northern Cheyenne		0.0%	0
Rocky Boy's	<div><div></div></div>	9.1%	2
Beaverhead		0.0%	0
Big Horn		0.0%	0
Blaine		0.0%	0
Broadwater		0.0%	0
Carbon		0.0%	0
Carter		0.0%	0
Cascade	<div><div></div></div>	22.7%	5
Chouteau		0.0%	0

State of Montana Multi-Hazard Mitigation Plan and Statewide Hazard Assessment

Custer		0.0%	0
Daniels		0.0%	0
Dawson		0.0%	0
Deer Lodge		0.0%	0
Fallon		0.0%	0
Fergus		0.0%	0
Flathead		0.0%	0
Gallatin		0.0%	0
Garfield		0.0%	0
Glacier	<div></div>	13.6%	3
Golden Valley		0.0%	0
Granite		0.0%	0
Hill	<div></div>	45.5%	10
Jefferson		0.0%	0
Judith Basin		0.0%	0
Lake		0.0%	0
Lewis And Clark		0.0%	0
Liberty		0.0%	0
Lincoln		0.0%	0
Madison		0.0%	0
McCone		0.0%	0
Meagher		0.0%	0
Mineral		0.0%	0
Missoula		0.0%	0
Musselshell		0.0%	0
Park		0.0%	0
Petroleum		0.0%	0
Phillips		0.0%	0
Pondera		0.0%	0
Powder River		0.0%	0
Powell		0.0%	0

Prairie		0.0%	0
Ravalli		0.0%	0
Richland		0.0%	0
Roosevelt		0.0%	0
Rosebud		0.0%	0
Sanders		0.0%	0
Sheridan		0.0%	0
Silver Bow		0.0%	0
Stillwater		0.0%	0
Sweet Grass		0.0%	0
Teton		0.0%	0
Toole	<div></div>	4.6%	1
Treasure		0.0%	0
Valley		0.0%	0
Wheatland		0.0%	0
Wibaux		0.0%	0
Yellowstone		0.0%	0
Other		0.0%	0
	answered question		22
	skipped question		0

Have you seen or read the State of Montana Multi-Hazard Mitigation Plan and Statewide Hazard Assessment.			
		Response Percent	Response Count
Yes	<div></div>	72.7%	16
No	<div></div>	27.3%	6
	answered question		22
	skipped question		0

How would you rate the overall quality and content of the plan.			
		Response Percent	Response Count
1 - Poor		0.0%	0
2		0.0%	0
3 - Average	<div></div>	46.2%	6
4	<div></div>	107.7%	14
5 - Excellent	<div></div>	7.7%	1
	answered question		13
	skipped question		9

Do you feel the plan accurately portrays natural and man-made hazards in Montana?			
		Response Percent	Response Count
Yes	<div></div>	161.5%	21
No		0.0%	0
	answered question		13
	skipped question		9

What improvements do you think could be made to the plan?		
		Response Count
		6
	answered question	6
	skipped question	16

From the perspective of the jurisdiction that you represent or permanently reside in, how do you perceive the risk to each of the following hazards: Risk is defined as the potential to affect people, environment, economy and property of your jurisdiction. High/Medium/Low for:					
	High	Medium	Low	Rating Average	Response Count
Communicable Disease	30.8% (4)	61.5% (8)	7.7% (1)	1.77	13
Drought	76.9% (10)	15.4% (2)	7.7% (1)	1.31	13
Earthquake	7.1% (1)	21.4% (3)	71.4% (10)	2.64	14
Flooding/Dam Failure	30.8% (4)	38.5% (5)	30.8% (4)	2.00	13
Hazardous Material Incidents	53.8% (7)	38.5% (5)	7.7% (1)	1.54	13
Landslide	15.4% (2)	15.4% (2)	69.2% (9)	2.54	13
Terrorism/Violence	15.4% (2)	46.2% (6)	38.5% (5)	2.23	13
Thunderstorm Wind, Hail, and Tornadoes	71.4% (10)	28.6% (4)	0.0% (0)	1.29	14
Volcanic Eruption	0.0% (0)	7.7% (1)	92.3% (12)	2.92	13
Wildfire	69.2% (9)	23.1% (3)	7.7% (1)	1.38	13
Winter Storms/Avalanche	57.1% (8)	42.9% (6)	0.0% (0)	1.43	14
	answered question				14
	skipped question				8

Please comment on the impact that future development will have on the hazards listed from the perspective of your jurisdiction.			
		Response Percent	Response Count
Communicable Disease	<div></div>	100.0%	8
Drought	<div></div>	100.0%	8
Earthquake	<div></div>	87.5%	7
Flooding/Dam Failure	<div></div>	87.5%	7
Hazardous Material Incidents	<div></div>	87.5%	7
Landslide	<div></div>	87.5%	7
Terrorism/Violence	<div></div>	100.0%	8
Thunderstorm Wind, Hail, and Tornadoes	<div></div>	100.0%	8
Volcanic Eruption	<div></div>	87.5%	7
Wildfire	<div></div>	100.0%	8
Winter Storms/Avalanche	<div></div>	100.0%	8
	answered question		8
	skipped question		14

Please prioritize the following proposed NEW goals for the State Plan Update by order of importance from the perspective of your jurisdiction (1=highest / 10=lowest):											
	High				Medium					Low	Rating Average
Maximize the Use of Mitigation Actions that Prevent Losses from All Hazards	44.4% (4)	33.3% (3)	0.0% (0)	0.0% (0)	11.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	11.1% (1)	0.0% (0)	2.67
Increase State’s Capability to Provide and Assist Locals with Mitigation Opportunities	45.5% (5)	27.3% (3)	18.2% (2)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.00
Reduce the Community Impacts of Wildland and Rangeland Fires	45.5% (5)	18.2% (2)	18.2% (2)	0.0% (0)	9.1% (1)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.36
Mitigate the Potential Loss of Life and Property from Flooding (riverine flooding, ice jams, dam failure)	9.1% (1)	27.3% (3)	9.1% (1)	18.2% (2)	18.2% (2)	0.0% (0)	0.0% (0)	18.2% (2)	0.0% (0)	0.0% (0)	4.00
Minimize Economic Impacts of Drought	36.4% (4)	9.1% (1)	18.2% (2)	0.0% (0)	18.2% (2)	18.2% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.09
Reduce Impacts from Severe Summer Weather (thunderstorm wind, hail, tornadoes)	18.2% (2)	9.1% (1)	36.4% (4)	9.1% (1)	9.1% (1)	9.1% (1)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	3.45
Reduce Impacts from Severe Winter Weather (extreme cold, snow, ice)	27.3% (3)	0.0% (0)	45.5% (5)	18.2% (2)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.82
Reduce Potential Earthquake Losses in Western Montana	0.0% (0)	0.0% (0)	18.2% (2)	27.3% (3)	27.3% (3)	0.0% (0)	0.0% (0)	18.2% (2)	0.0% (0)	9.1% (1)	5.36
Reduce Losses from Hazardous Material Incidents	36.4% (4)	27.3% (3)	27.3% (3)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.09
Encourage Mitigation of Potentially Devastating but Historically Less Frequent Hazards	9.1% (1)	27.3% (3)	18.2% (2)	9.1% (1)	9.1% (1)	0.0% (0)	18.2% (2)	0.0% (0)	9.1% (1)	0.0% (0)	4.09
	answered question										
	skipped question										

Please indicate any additional Goals you think should be added to the State Plan.		
		Response Count
		0
	answered question	0
	skipped question	22

Goal: Maximize the use of mitigation actions that prevent losses from all hazards.											
	High				Medium					Low	Rating Average
Develop GIS databases of hazard risk maps and state buildings and infrastructure to use in mitigation planning	0.0% (0)	62.5% (5)	25.0% (2)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.63
Conduct Level 1 HAZUS-MH analyses for all Montana counties	50.0% (4)	25.0% (2)	12.5% (1)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.00
Improve Statewide HAZUS data	50.0% (4)	25.0% (2)	12.5% (1)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.00
Determine GPS locations of all State buildings for detailed, non-public analysis	12.5% (1)	37.5% (3)	25.0% (2)	0.0% (0)	0.0% (0)	12.5% (1)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	3.38
Conduct a non-public hazard assessment that utilizes specific State building locations and infrastructure locations to be used for mitigation actions and homeland security purposes	0.0% (0)	62.5% (5)	25.0% (2)	0.0% (0)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.75
Promote earth science education of hazards in schools	25.0% (2)	25.0% (2)	12.5% (1)	25.0% (2)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.75
Conduct a Statewide warning capability assessment	62.5% (5)	12.5% (1)	0.0% (0)	0.0% (0)	25.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.13
Develop a Statewide All-Hazard Emergency Alert System (EAS) plan	62.5% (5)	12.5% (1)	0.0% (0)	12.5% (1)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.00
Continuously improve hazard assessments and the associated evaluation of vulnerabilities from all hazards.	50.0% (4)	25.0% (2)	0.0% (0)	12.5% (1)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.13
Increase the public awareness of hazards	50.0% (4)	25.0% (2)	12.5% (1)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.00
Enable every citizen in Montana to receive critical warning information immediately no matter where he/she is	62.5% (5)	0.0% (0)	12.5% (1)	0.0% (0)	25.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.25
Increase readiness for the protection of life and property during an event	57.1% (4)	28.6% (2)	14.3% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.57
	answered question										

	<i>skipped question</i>
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Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.										
										Response Count
										0
	<i>answered question</i>									0
	<i>skipped question</i>									22

Goal: Increase State’s capability to provide and assist locals with mitigation opportunities.											
	High				Medium					Low	Rating Average
Continue outreach of mitigation project funding opportunities	50.0% (4)	25.0% (2)	25.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.75
Provide technical assistance with the environmental review process	50.0% (4)	37.5% (3)	0.0% (0)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.88
Provide technical assistance for project development	50.0% (4)	37.5% (3)	0.0% (0)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.88
Create an electronic database of completed mitigation projects in Montana	12.5% (1)	37.5% (3)	25.0% (2)	0.0% (0)	0.0% (0)	25.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.13
Increase the scope and participation of the State Hazard Mitigation Team	37.5% (3)	25.0% (2)	12.5% (1)	0.0% (0)	12.5% (1)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.63
Create a private advisory group for mitigation	25.0% (2)	12.5% (1)	12.5% (1)	25.0% (2)	12.5% (1)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.25
Streamline mitigation standards in state and/or local subdivision regulations	12.5% (1)	25.0% (2)	50.0% (4)	0.0% (0)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.88
Strengthen state and/or local building codes	25.0% (2)	12.5% (1)	12.5% (1)	12.5% (1)	12.5% (1)	0.0% (0)	12.5% (1)	0.0% (0)	12.5% (1)	0.0% (0)	4.00
Require growth policies consider natural and man-made hazard	25.0% (2)	25.0% (2)	25.0% (2)	12.5% (1)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.63
Create a state funded grant program to assist with the 25% match for local governments	50.0% (4)	25.0% (2)	12.5% (1)	0.0% (0)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.13
Coordinate local plan development	37.5% (3)	25.0% (2)	12.5% (1)	25.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.25
Provide technical assistance with											

hazard mapping for rural communities without GIS capabilities	75.0% (6)	12.5% (1)	0.0% (0)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.63
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											0
	answered question										0
	skipped question										22

Goal: Mitigate the potential loss of life and property from flooding.												
	High				Medium					Low	Rating Average	R
Develop and improve upon model floodplain ordinances for local governments	16.7% (1)	16.7% (1)	33.3% (2)	0.0% (0)	33.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.17	
Develop mapping for unmapped flood prone areas	16.7% (1)	50.0% (3)	33.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.17	
Update floodplain mapping of mapped areas	0.0% (0)	60.0% (3)	40.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.40	
Establish a schedule for NFIP map reviews and updates	0.0% (0)	66.7% (4)	16.7% (1)	0.0% (0)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.67	
Provide outreach and technical assistance in joining the NFIP Community Rating System for reducing flood insurance premiums	66.7% (4)	16.7% (1)	0.0% (0)	0.0% (0)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.83	
Increase the public awareness of flood mitigation	16.7% (1)	66.7% (4)	0.0% (0)	0.0% (0)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.33	
Reduce the number of current and future structures in the floodplain	33.3% (2)	16.7% (1)	33.3% (2)	0.0% (0)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.50	
Prevent flooding of structures and infrastructure from inadequate storm drainage and poorly designed irrigation waterways	33.3% (2)	33.3% (2)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.17	
Provide adequate warning of flooding events	83.3% (5)	0.0% (0)	0.0% (0)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.50	

	<i>answered question</i>	
	<i>skipped question</i>	

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
	Response Count	
	0	
	<i>answered question</i>	0
	<i>skipped question</i>	22

Goal: Reduce the community impacts of wildland and rangeland fires.												
	High				Medium					Low	Rating Average	Response Count
Reduce fuels in the wildland urban interface	66.7% (4)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.50	
Reduce hazardous fuels in rangeland areas	33.3% (2)	33.3% (2)	33.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.00	
Accurately assess and address the current wildland urban interface problems at the subdivision level	16.7% (1)	50.0% (3)	16.7% (1)	0.0% (0)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.50	
Enhance firefighting resources and improve firefighting capabilities	66.7% (4)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.50	
Enhance community awareness of wildfires through education	50.0% (3)	50.0% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.50	
Enhance effectiveness of response and evacuation	50.0% (3)	33.3% (2)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.67	
Establish mapping or record keeping practices to support fuel management strategies	33.3% (2)	50.0% (3)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.83	
Minimize human-caused ignition sources in fire-prone areas	50.0% (3)	50.0% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.50	
Centralize fire history documentation	0.0% (0)	83.3% (5)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.17	
Develop a consistent Statewide fire risk assessment system	33.3% (2)	50.0% (3)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.83	
Encourage sustainable growth in wildland fire hazard areas	33.3% (2)	66.7% (4)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.67	

	<i>answered question</i>	
	<i>skipped question</i>	

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		1
	<i>answered question</i>	1
	<i>skipped question</i>	21

Goal: Reduce potential earthquake losses in Western Montana.											
	High				Medium					Low	Rating Average
Goal: Reduce potential earthquake losses in Western Montana.	0.0% (0)	16.7% (1)	16.7% (1)	16.7% (1)	50.0% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	4.00
Provide greater enforcement of current building codes	0.0% (0)	33.3% (2)	16.7% (1)	0.0% (0)	33.3% (2)	0.0% (0)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	4.00
Develop model seismic building codes	0.0% (0)	33.3% (2)	16.7% (1)	0.0% (0)	33.3% (2)	0.0% (0)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	4.00
Create stronger building standards for critical facilities and structures housing vulnerable populations	0.0% (0)	33.3% (2)	33.3% (2)	0.0% (0)	33.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.33
Require earthquake drills in schools in Western Montana	16.7% (1)	16.7% (1)	33.3% (2)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.00
Expand and upgrade earthquake monitoring network and reporting capabilities	16.7% (1)	16.7% (1)	33.3% (2)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.00
Continue “Earthquake Preparedness Month” outreach activities during the month of October	0.0% (0)	33.3% (2)	33.3% (2)	0.0% (0)	33.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.33
Implement non-structural mitigation projects to harden State and community infrastructure from seismic hazards	0.0% (0)	33.3% (2)	33.3% (2)	0.0% (0)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.50
Seismically retrofit existing critical facilities and government assets	0.0% (0)	16.7% (1)	50.0% (3)	0.0% (0)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.67
	<i>answered question</i>										

		<i>skipped question</i>	
Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.			
			Response Count
			0
	<i>answered question</i>		0
	<i>skipped question</i>		22

Goal: Minimize economic impacts of drought.												
	High				Medium					Low	Rating Average	Res C
Develop a system for distributing information on current conditions	50.0% (3)	50.0% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.50	
Continue to support the State Drought Advisory Committee	50.0% (3)	33.3% (2)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.67	
Install Statewide drought monitoring stations	50.0% (3)	16.7% (1)	33.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.83	
Use long-term groundwater monitoring to assess drought conditions	66.7% (4)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.50	
Educate farmers and ranchers in fiscally preventing drought losses	50.0% (3)	33.3% (2)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.67	
Educate farmers and ranchers in reducing physical losses during dry seasons	50.0% (3)	33.3% (2)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.67	
Identify water retention projects that could lessen the effects of drought	66.7% (4)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.50	
	<i>answered question</i>											
	<i>skipped question</i>											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											0
	answered question										0
	skipped question										22

Goal: Reduce impacts from severe winter weather.												
	High				Medium					Low	Rating Average	R
Distribute winter driving and survival tips	66.7% (4)	16.7% (1)	0.0% (0)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.67	
Increase public awareness of winter weather hazards	66.7% (4)	33.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.33	
Create partnerships with utility companies and negotiate for shorten span distances between power poles to better withstand snow loads and severe storms	16.7% (1)	16.7% (1)	33.3% (2)	0.0% (0)	33.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.17	
Improve communication between emergency response personnel and road departments to facilitate coordination during extreme weather	83.3% (5)	0.0% (0)	0.0% (0)	0.0% (0)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.67	
Structurally analyze all buildings or rooms identified as shelters and strengthen these as necessary	50.0% (3)	16.7% (1)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.00	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											0
	answered question										0
	skipped question										22

Goal: Reduce impacts from Severe Summer Weather (thunderstorms, wind, hail, tornadoes)												
	High				Medium					Low	Rating Average	Re
Install safety film on critical facilities to prevent shattering glass.	33.3% (2)	33.3% (2)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.17	
Encourage development and enforcement of wind resistant buildings and construction codes	16.7% (1)	33.3% (2)	33.3% (2)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.50	
Develop and implement programs to keep trees from threatening lives, property and public infrastructure during windstorm events	33.3% (2)	50.0% (3)	0.0% (0)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.00	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		0
	answered question	0
	skipped question	22

Goal: Reduce losses from Hazardous Material Incidents												
	High				Medium					Low	Rating Average	Resp Co
Develop communication plan for hazardous material emergencies	83.3% (5)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.17	
Enhance information capability on types of hazardous materials traveling transportation routes	83.3% (5)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.17	
Provide hazardous material training to emergency responders	83.3% (5)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.17	
Develop evacuation procedures for homes near transportation networks that commonly carry hazardous materials	83.3% (5)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.17	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		0
	answered question	0
	skipped question	22

Goal: Encourage mitigation of potentially devastating but historically less frequent hazards.												
	High				Medium					Low	Rating Average	R
Identify and map areas of greatest landslide and avalanche potential	16.7% (1)	16.7% (1)	50.0% (3)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.67	
Create a landslide/avalanche technical committee	0.0% (0)	33.3% (2)	16.7% (1)	16.7% (1)	33.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.50	
Support the mitigation related goals, objectives, and actions of the Montana Homeland Security Strategic Plan	33.3% (2)	50.0% (3)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.83	
Reduce losses from communicable disease	66.7% (4)	33.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.33	
Increase awareness of risks from communicable disease	83.3% (5)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.17	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		0
	answered question	0
	skipped question	22

Please indicate how long it took you to complete the survey.			
		Response Percent	Response Count
5 minutes		0.0%	0
10 minutes		0.0%	0
15 minutes	<div></div>	57.1%	4
20 minutes	<div></div>	14.3%	1
30 minutes	<div></div>	14.3%	1
Greater than 30 minutes	<div></div>	14.3%	1
	answered question		7
	skipped question		15

District 2 On-Line Survey - Other Jurisdictions Completing Survey

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Comment Text		Response Date
 Find	1. Fire Service	Tue, 6/19/07 3:19 PM
 Find	2. Univeristy	Tue, 6/5/07 12:44 PM
 Find	3. Univeersity system	Thu, 5/24/07 5:36 PM
 Find	4. University	Wed, 5/23/07 1:29 PM
		10 responses per page 

District 2 On-Line Survey - Suggested Improvements to State Plan

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Comment Text		Response Date
 Find	1. Update hazard maps with current data.	Tue, 6/5/07 2:13 PM
 Find	2. Pandemic response up-grade for communicable Vector response up-grade	Tue, 6/5/07 12:56 PM
 Find	3. no ideas at this time	Fri, 6/1/07 2:45 PM
 Find	4. no ideas at this time.	Fri, 6/1/07 2:45 PM
 Find	5. no ideas at this time	Fri, 6/1/07 2:44 PM
 Find	6. No specific suggestions.	Wed, 5/30/07 12:24 PM
 Find	7. There needs to be a greater active roll on the part of the State and Federal governments along the northern border of the state. Most departments responing to an "All Hazards" incident are not prepared. Both equipment and or training. Again most departments do very well on the fire and MVA fronts but budgets will not allow for HAZMAT equipment beyond a Level-B at best.	Thu, 5/24/07 7:08 AM
 Find	8. None. I feel that a plan should be loose enough so that one can deviate from the plan if the situation warrents without worrying about liability issues.	Wed, 5/23/07 6:19 PM

10 responses per page

District 2 On-Line Survey - Other Wildfire Mitigation Projects

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Comment Text		Response Date
 Find	1. Stop the hold up in courts for companies that want to log dead forests. When they log an area they seed it for new trees. By logging we take away the fuels that spread wild fires.	Thu, 5/24/07 8:30 AM
		10 responses per page 

District 2 On-Line Survey-Impact of Future Development on Communicable Disease Hazard

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Comment Text		Response Date
 Find	1. Increased vulnerability to exposure to illnesses from visitors.	Wed, 6/6/07 10:45 AM
 Find	2. increase risk	Tue, 6/5/07 2:16 PM
 Find	3. Much more time commitment/resource	Tue, 6/5/07 1:05 PM
 Find	4. increase	Thu, 5/24/07 5:38 PM
 Find	5. People passing through the reservation boundries especially at the Casino will increase exposure	Thu, 5/24/07 9:57 AM
 Find	6. We have good vaccine preventable disease coverage, but still rank high in diseases like STD's	Thu, 5/24/07 8:39 AM
 Find	7. We have a low population so overall effect would be low	Thu, 5/24/07 7:34 AM
 Find	8. more people relying on same sytem	Wed, 5/23/07 2:56 PM
		10 responses per page 

District 2 On-Line Survey-Impact of Future Development on Drought Hazard

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Comment Text		Response Date
 Find	1. decrease in Natural resources and lower agriculture production	Wed, 6/6/07 10:45 AM
 Find	2. increase risk	Tue, 6/5/07 2:16 PM
 Find	3. Have existed with it for years, when diminished, will diminish impact wildfire	Tue, 6/5/07 1:05 PM
 Find	4. same	Thu, 5/24/07 5:38 PM
 Find	5. Less moisture will increase wildfire activity and cause problems with livestock as there will be decrease in the availability of feed products	Thu, 5/24/07 9:57 AM
 Find	6. Happens just about every year	Thu, 5/24/07 8:39 AM
 Find	7. Low because of water-shed from the mountains	Thu, 5/24/07 7:34 AM
 Find	8. Water reserves are limited now extensive drought could be disastrous	Wed, 5/23/07 2:56 PM
		10 responses per page 

District 2 On-Line Survey-Impact of Future Development on Earthquake Hazard

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Comment Text		Response Date
 Find	1. none	Wed, 6/6/07 10:45 AM
 Find	2. no change	Tue, 6/5/07 2:16 PM
 Find	3. No additional impact	Tue, 6/5/07 1:05 PM
 Find	4. same	Thu, 5/24/07 5:38 PM
 Find	5. possible injury to landbase	Thu, 5/24/07 9:57 AM
 Find	6. Effect maybe from people out of this area comming here from more earthquake prone areas.	Thu, 5/24/07 7:34 AM
 Find	7. building damage	Wed, 5/23/07 2:56 PM
		10 responses per page 

District 2 On-Line Survey-Impact of Future Development on Flooding Hazard

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Comment Text		Response Date
 Find	1. loss of life and homes	Wed, 6/6/07 10:45 AM
 Find	2. no change	Tue, 6/5/07 2:16 PM
 Find	3. No additional impact	Tue, 6/5/07 1:05 PM
 Find	4. same	Thu, 5/24/07 5:38 PM
 Find	5. floods are more apt to happen if there is an increase in moisture during winter and spring storms	Thu, 5/24/07 9:57 AM
 Find	6. We have an old earthen damn on the GNP boundary. This could cause a problem for some housing areas around the Lower St. Mary Lake area.	Thu, 5/24/07 7:34 AM
 Find	7. not likely	Wed, 5/23/07 2:56 PM
		10 responses per page 

District 2 On-Line Survey-Impact of Future Development on Hazardous Material Incidents

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Comment Text		Response Date
 Find	1. Contamination of ground water, soil and cause illness and injury	Wed, 6/6/07 10:45 AM
 Find	2. increase	Tue, 6/5/07 2:16 PM
 Find	3. High hazard potential due to RR and Highway traffic	Tue, 6/5/07 1:05 PM
 Find	4. increase	Thu, 5/24/07 5:38 PM
 Find	5. Incresed activity at the Casino and building of Methanol plant willincrease the possibility of events.	Thu, 5/24/07 9:57 AM
 Find	6. Most of what we have in the area is shipping by truck. Depending on the time of year it would have an economic impact to the area.	Thu, 5/24/07 7:34 AM
 Find	7. Railroad through metropolitan area a concern	Wed, 5/23/07 2:56 PM
		10 responses per page 

District 2 On-Line Survey-Impact of Future Development on Landslide Hazard

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Comment Text		Response Date
 Find	1. loss of land useable land base	Wed, 6/6/07 10:45 AM
 Find	2. no change	Tue, 6/5/07 2:16 PM
 Find	3. No additional impact	Tue, 6/5/07 1:05 PM
 Find	4. same	Thu, 5/24/07 5:38 PM
 Find	5. movement of land around the dam may cause landslides.	Thu, 5/24/07 9:57 AM
 Find	6. Glacier National Park has the greatest problem with this. It does have an economic impact on the area when this occurs.	Thu, 5/24/07 7:34 AM
 Find	7. NOT LIKELY	Wed, 5/23/07 2:56 PM
		10 responses per page 

District 2 On-Line Survey-Impact of Future Development on Severe Summer Weather Hazard

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Comment Text		Response Date
 Find	1. Loss of agricultural production, injury or loss of life, damage to structures.	Wed, 6/6/07 10:45 AM
 Find	2. increase	Tue, 6/5/07 2:16 PM
 Find	3. Have always trained for adverse weather response	Tue, 6/5/07 1:05 PM
 Find	4. same	Thu, 5/24/07 5:38 PM
 Find	5. If the problem of Global Warming is true then we are looking at the changes in season, may increase the intensity of storms.	Thu, 5/24/07 9:57 AM
 Find	6. frequent	Thu, 5/24/07 8:39 AM
 Find	7. This has a more personal economic effect.	Thu, 5/24/07 7:34 AM
 Find	8. Could impact greatly depending on location	Wed, 5/23/07 2:56 PM
		10 responses per page 

District 2 On-Line Survey-Impact of Future Development on Terrorism Hazard

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Comment Text		Response Date
 Find	1. Loss of life, increased injury increase of the delivery of drugs	Wed, 6/6/07 10:45 AM
 Find	2. no change	Tue, 6/5/07 2:16 PM
 Find	3. No additional impact	Tue, 6/5/07 1:05 PM
 Find	4. same	Thu, 5/24/07 5:38 PM
 Find	5. Increased substance abuse may may cause increased violence	Thu, 5/24/07 9:57 AM
 Find	6. our county has an international border	Thu, 5/24/07 8:39 AM
 Find	7. There are some wide open areas that should be monitored better. These areas could lend themselves favorable to this kind of activity.	Thu, 5/24/07 7:34 AM
 Find	8. Border Close to us but patrolled	Wed, 5/23/07 2:56 PM
		10 responses per page 

District 2 On-Line Survey-Impact of Future Development on Volcanic Eruption Hazard

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Comment Text		Response Date
 Find	1. none	Wed, 6/6/07 10:45 AM
 Find	2. no change	Tue, 6/5/07 2:16 PM
 Find	3. No additional impact	Tue, 6/5/07 1:05 PM
 Find	4. same	Thu, 5/24/07 5:38 PM
 Find	5. none	Thu, 5/24/07 9:57 AM
 Find	6. Again the same as point three.	Thu, 5/24/07 7:34 AM
 Find	7. If happened could produce concern	Wed, 5/23/07 2:56 PM
		10 responses per page 

District 2 On-Line Survey-Impact of Future Development on Wildfire Hazard

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Comment Text		Response Date
 Find	1. loss of natural resources, damage to structures, injury or death	Wed, 6/6/07 10:45 AM
 Find	2. no change	Tue, 6/5/07 2:16 PM
 Find	3. Great risk coupled with drought conditions	Tue, 6/5/07 1:05 PM
 Find	4. same	Thu, 5/24/07 5:38 PM
 Find	5. Drought has increase the incidence of wildfires now, if this continues the dryness will increase and over forest in are is at increased risk	Thu, 5/24/07 9:57 AM
 Find	6. just about every year	Thu, 5/24/07 8:39 AM
 Find	7. Life threatening, economic impact both buisness and personal.	Thu, 5/24/07 7:34 AM
 Find	8. A real hazard with CRP and no fire break between wildlands and residential	Wed, 5/23/07 2:56 PM
		10 responses per page 

District 2 On-Line Survey-Impact of Future Development on Severe Winter Weather Hazard

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Comment Text		Response Date
 Find	1. injury or loss of life, damage to structures or roads	Wed, 6/6/07 10:45 AM
 Find	2. no change	Tue, 6/5/07 2:16 PM
 Find	3. Adverse weather conditions drive much of our planning/training	Tue, 6/5/07 1:05 PM
 Find	4. same	Thu, 5/24/07 5:38 PM
 Find	5. none if drought continues, but will increase if the moisture incresese	Thu, 5/24/07 9:57 AM
 Find	6. common	Thu, 5/24/07 8:39 AM
 Find	7. This is one of the areas that most people here are prepared for. The greatest problem may be emergency medical ambulance service. Life Flight will not work well here in what we call a Winter Storm.	Thu, 5/24/07 7:34 AM
 Find	8. In mountainous are a definite concern	Wed, 5/23/07 2:56 PM
		10 responses per page 

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MITIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

Mitigation Projects

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 1 - Maximize the use of mitigation actions that prevent losses from all hazards.

OBJECTIVE 1.1 - Increase readiness for the protection of life and property during an event.

Blackfeet Reservation

High Priority

- Create evacuation plans and educate public on evacuation routes.
- Obtain backup generator for Tribal headquarters to support emergency communications.
- Obtain antennae to pick up NOAA broadcasts from Great Falls.
- Establish high-speed communication system, network reliability/ interoperability.
- Obtain generators for water systems in all communities.
- Identify emergency shelters and increase awareness on shelter locations.

Medium Priority

- Install pigtail connections at Tribal critical facilities for mobile generator.
- Obtain portable repeater that could be used in areas where current communication is poor.
- Construct new Tribal dispatch building.
- Establish telephone priority system regarding which phones would come back on-line first.
- Obtain mobile generator to use at Tribal headquarters and other critical facilities including schools, medical clinics, and emergency shelters.
- Develop resource list of emergency services needed in event of disaster.
- Establish protocols to assist citizens with special needs in event of disaster.
- Establish protocols for food and fuel distribution in event of disaster and cooperative agreements with providers.
- Establish program where government credit cards would be available for emergency provisions in event of disaster.

Blaine County

High Priority

- Construct dam on Thirtymile Creek to ensure north/south access is maintained in northern portion of County.

Medium Priority

- Obtain mobile generators for emergency shelters.
- Install two-way switches in facilities where emergency generators are used.
- Define emergency shelters in each community.
- Construct alternate railroad crossing near Harlem and Zurich for times when BNSF trains block tracks.
- Install pigtails at shelters to accommodate mobile generators.

Low Priority

- Reconstruct the Thirtymile Creek crossing to ensure north/south access for emergency services.
- Obtain emergency generator for Little Rockies Senior Center.
- Equip all schools in Harlem with pigtails for emergency generators.
- Obtain emergency generator for all schools within County.

Hill County

High Priority

- Obtain portable repeaters to use during emergencies.
- Develop a County Wildfire and All Risk Emergency Operations plan. Include a County/Interagency communications plan with cooperators and communities.

Medium Priority

- Consider additional railroad crossings in Havre because existing crossings east and west of town are commonly blocked by trains.

Low Priority

- Update and replace FM radios for Fire Department.

Liberty County

High Priority

- Train residents on how to use weather radios and other tools.

Low Priority

- Educate local population on designated shelter locations and shelter requirements and prohibitions.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 1 - Maximize the use of mitigation actions that prevent losses from all hazards.

OBJECTIVE 1.1 - Increase readiness for the protection of life and property during an event.

Liberty County

Low Priority

- Sign agreements with "shelter" facility owners.
- Work with the American Red Cross to identify the best locations for shelters. Inventory characteristics of the facilities such as accessibility, kitchen and bathroom facilities, etc.

Rocky Boy's Reservation

Medium Priority

- Establish base station at Clinic for communications with Havre and other emergency services.
- Provide CERT training to emergency responders.
- Install pigtail connections at Tribal critical facilities for mobile generator.
- Upgrade radios for emergency responders.
- Coordinate with Northern Tier Coalition.
- Obtain NOAA weather radios for Tribal critical facilities.
- Develop a centralized 911 dispatch system.
- Develop a centralized incident command center.
- Obtain mobile generator to use at Tribal headquarters and other critical facilities including schools, medical clinics, and emergency shelters.

Low Priority

- Recruit new weather spotters.

Toole County

Medium Priority

- Do a community project to build and distribute kits.

OBJECTIVE 1.2 - Enable every citizen in Montana to receive critical warning information immediately no matter where he/she is.

Blackfeet Reservation

High Priority

- Obtain bullhorns or loud speakers to broadcast emergencies locally.
- Implement reverse 911 system for all areas within the reservation.
- Obtain NOAA weather radios for Tribal critical facilities and schools.
- Obtain sirens for all reservation communities.

Medium Priority

- Map areas within the reservation that do not have communications.

Blaine County

High Priority

- Obtain or update sirens in all communities.
- Obtain bullhorns or loud speakers to broadcast emergencies locally.
- Coordinate radio/repeater sites to enhance communication system.

Medium Priority

- Obtain satellite phones to enhance communication in southern part of County.

Hill County

High Priority

- Upgrade sirens in Havre and Hingham counties.

Liberty County

High Priority

- Make a bulk purchase of weather radios and distribute them.

Medium Priority

- Evaluate the existing siren system in Chester and determine how it can be used to effectively warn residents
- Develop a warning system for residents of other unincorporated areas.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 1 - Maximize the use of mitigation actions that prevent losses from all hazards.

OBJECTIVE 1.2 - Enable every citizen in Montana to receive critical warning information immediately no matter where he/she is.

Liberty County

Medium Priority

- Develop a warning system for residents of Joplin.

Rocky Boy's Reservation

High Priority

- Obtain backup generator for Tribal headquarters to support emergency communications.

Medium Priority

- Implement reverse 911 system for all areas within the reservation.
- Map areas within the reservation that do not have communications.
- Obtain portable repeater that could be used in areas where current communication is poor.
- Petition cell phone companies for better mobile phone service.
- Obtain bullhorns or loud speakers to broadcast emergencies locally.
- Develop a rural addressing system.
- Obtain sirens for towns of Rocky Boy Agency and Box Elder.

OBJECTIVE 1.3 - Increase the public awareness of hazards.

Blackfeet Reservation

High Priority

- Create activities for students of all ages to participate in involving disaster awareness.
- Launch public awareness campaign so residents understand what hazards are present when sirens are used.
- Increase awareness on risk reduction at community events.

Blaine County

High Priority

- Launch public awareness campaign so residents understand what hazards are present when sirens are used.

Hill County

High Priority

- Designate emergency shelters and increase public awareness on shelters.

Liberty County

High Priority

- Use the Liberty County Times and brochures to make information available to residents on what to do in the event of a natural disaster.

Rocky Boy's Reservation

Medium Priority

- Increase public awareness on risk reduction at Tribal health fairs.
- Create activities for students of all ages to participate in involving disaster awareness.
- Distribute education materials to organizations and reservation residents regarding preparedness for no power situations.
- Launch public awareness campaign so residents understand what hazards are present when sirens are used.
- Identify awareness on emergency shelter locations through the media.
- Create evacuation plans and educate public on evacuation routes.

Toole County

Medium Priority

- Work with newspaper to do an insert on disaster preparation.
- Support efforts of public health to educate residents about assembling a 72-hour kit.
- Make people aware of information resources.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 1 - Maximize the use of mitigation actions that prevent losses from all hazards.

OBJECTIVE 1.3 - Increase the public awareness of hazards.

Toole County

Low Priority

- Educate people on the need and assist them in developing personal/family contact and contingency plans for disasters.

OBJECTIVE 1.4 - Continuously improve hazard assessments and the associated evaluation of vulnerabilities from all hazards.

Blaine County

High Priority

- Conduct study to determine best way to address access issues associated with Thirtymile Creek crossing.

Hill County

High Priority

- Update maps to showing new housing developments.

GOAL 2 - Increase State's capability to provide and assist locals with mitigation opportunities.

OBJECTIVE 2.2 - Promote mitigation through supportive legislation and funding.

Pondera County

Low Priority

- Review existing laws, building codes and/or land development ordinances to determine if new legislation or amendments are needed.
- Develop countywide growth plan.
- Develop land use policies.

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.1 - Enhance firefighting resources and improve firefighting capabilities.

Blackfeet Reservation

High Priority

- Provide training for volunteer fire fighters for wildland certification.
- Locate water tank in rural areas for fire fighting.
- Recruit more volunteer fire fighters.

Medium Priority

- Construct a fire hall in community of Seville.
- Obtain fire fighting equipment for VFDs in rural communities.
- Develop additional water storage facilities.

Blaine County

High Priority

- Obtain mobile generators for response vehicles to pump water from hydrants and/or bladders.
- Utilize County and cooperators expertise to meet training needs. Provide incentive for fire fighters to attend training. Practice until proficient with County GPS units and cooperators communications system.
- Develop GPS database of water sources in County to enhance fire fighting efforts.
- Obtain larger fire response vehicles to accommodate mobile generators.
- Coordinate with State Regional DES and Federal partners for scheduling and attendance at Incident Command System (ICS) 100/200 and/or IS 700 or State of Montana DES training requirements.
- Obtain GPS units and provide training for fire departments.
- Develop new water supplied in rural areas for fire fighting.
- Identify appropriate locations for the installation of dry hydrants to provide water for fire fighting.
- Improve communication amongst volunteer fire fighters.

Medium Priority

- Identify site(s) and develop water storage facilities for towns of Turner and Hogeland.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.1 - Enhance firefighting resources and improve firefighting capabilities.

Blaine County

Low Priority

- Obtain a temporary water bladder(s) of 5,000 to 10,000 gallons for Turner and Hogeland until permanent water storage facilities are constructed.

Fort Belknap Reservation

High Priority

- Investigate sources of used fire fighting equipment to equip community fire halls.
- Implement Memorandum of Understanding with DNRC and BLM for fire response on reservation lands.

Medium Priority

- Obtain mobile generators for response vehicles to pump water from hydrants and/or bladders.
- Develop new and upgrade existing dry hydrants in Hays and Lodgepole.
- Develop new water supplies in rural areas for fire fighting.
- Construct pipe stands along creeks to assist with crews obtaining water.
- Obtain fire tender for Lodgepole.
- Obtain a temporary water bladder(s) of 5,000 to 10,000 gallons for Hays and Lodgepole until permanent water storage facilities are constructed.
- Install cisterns or water tanks in strategic locations for fire fighting.
- Develop water storage facilities for towns of Hays and Lodgepole.
- Recruit more volunteer fire fighters.
- Provide training for volunteer fire fighters for Wildland certification.

Low Priority

- Obtain larger fire response vehicles to accommodate mobile generators.

Hill County

High Priority

- Identify sites for temporary water sources such as large bladders to be filled and used during summer and fall fire seasons.
- Recruit people for volunteer fire departments.
- Update Volunteer Fire Department PPE (turnouts) and obtain SCBAs.
- Coordinate with State Regional DES and Federal partners for scheduling attendance at Incident Command System (ICS) 100/200 and/or IS 700 or State of Montana DES training.

Medium Priority

- Construct fast fill water station north of Kremlin to reduce distance trucks have to travel to fill during fires.

Rocky Boy's Reservation

High Priority

- Identify appropriate locations for the installation of dry hydrants to provide water for fire fighting.

Medium Priority

- Develop additional water storage facilities.
- Provide training for volunteer fire fighters for wildland certification.
- Recruit more volunteer fire fighters.

Toole County

High Priority

- Make a bulk purchase of fire extinguishers and make them available at cost to owners of farm equipment.

OBJECTIVE 3.2 - Reduce fuels in the wildland urban interface (WUI), rangeland and communities.

Blackfeet Reservation

High Priority

- Conduct fuel reduction projects, as needed.
- Create fire breaks as needed on the reservation.
- Create defensible space around structures and promote FIREWISE programs in communities.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.2 - Reduce fuels in the wildland urban interface (WUI), rangeland and communities.

Blackfeet Reservation

Medium Priority

- Coordinate with landowners for enhanced grazing around towns to reduce fuels.

Blaine County

High Priority

- Coordinate with cooperators to employ fuel reduction treatments on CRP and other lands with high or undesirable fuels. Treatments such as double row plow/disk perimeter, mowing vegetation, introduce prescribed fire, other mechanical treatments or a combo.
- Continue grazing in sustainable areas by wild and domestic ungulates to reduce fuel loading and lower potential wildfire intensity.
- Implement Firewise practices through creation of defensible space around communities and private homes. Utilize standard Fire Protection Guidelines for residential development in the WUI. Participate in the National Firewise Communities program.
- Implement fuel reduction measures along highways, communication sites, around perimeter and within communities by cutting or mowing where feasible.

Low Priority

- Reduce number of abandoned wood buildings in town.

Fort Belknap Reservation

High Priority

- Create defensible space around structures and promote FIREWISE programs around communities and private homes.
- Continue grazing in sustainable areas by wild and domestic ungulates to reduce fuel loading and lower potential wildfire intensity.
- Burn around communities to mitigate wildfire risk.
- Coordinate with landowners for enhanced grazing around towns to reduce fuels.
- Implement fuel reduction measures around perimeter and within communities by cutting or mowing where feasible.

Medium Priority

- Implement fuel reduction measures along highways and communication sites by cutting or mowing where feasible.
- Coordinate with BLM to employ fuel reduction treatments on lands with high or undesirable fuels.
- Reduce number of abandoned wood buildings in towns.

Glacier County

High Priority

- Promote best management practices for crop and rangeland.
- Assist the public to develop defensible space around dwellings/farm buildings.

Hill County

High Priority

- Employ fuel reduction and/or containment treatments on CRP lands. With cooperators and landowners apply treatments such as double row plow/disk of perimeter, mow vegetation, introduce prescribed fire or a combination of these.
- Reduce the number of railroad ignitions through coordination with railroad representatives. Coordinate and request railroad right-of-way fuel reduction to include mowing/spraying and removal at appropriate times.
- Coordinated with BNSF for earlier spraying of weeds along railroad right-of-way.
- Implement fuel reduction measures along highways, at communication sites, and on the perimeter and within communities by cutting or mowing where feasible.

Medium Priority

- Continue grazing in sustainable areas with wild and domestic ungulates to reduce fuel loading and decrease potential wildfire intensity.
- Implement Firewise practices through creation of defensible space around communities and private homes. Utilized standard Fire Protection Guidelines for Residential Development in the WUI as identified in NFPA 1144 Standard for Protection.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.2 - Reduce fuels in the wildland urban interface (WUI), rangeland and communities.

Liberty County

High Priority

- Work with the USDA to encourage landowners with CRP lands to create and maintain fire guards.

Pondera County

High Priority

- Promote best management practices for crop and rangeland.
- Assist the public to develop defensible space around dwellings and farm buildings.

Rocky Boy's Reservation

High Priority

- Collaborate with USFS and BLM on fuel reduction projects.
- Create fire breaks as needed on the reservation.
- Coordinate with landowners for enhanced grazing around towns to reduce fuels.
- Create defensible space around structures and promote FIREWISE programs in communities.

OBJECTIVE 3.3 - Enhance community awareness of wildfires through education.

Blaine County

High Priority

- Reduce number of railroad ignitions by coordination with BNSF railroad welding crews. Request railroad right-of-way fuel reduction mowing/spraying removal.
- With cooperators, provide classroom or video fire suppression training for rural area citizens and County employees who will respond to wildland fires.

Glacier County

Medium Priority

- Promote such educational programs as Firewise.

Hill County

High Priority

- With cooperators, provide classroom or video fire suppression training for rural area citizens and County employees who will respond to wildland fires.

Liberty County

Medium Priority

- Install a fire danger sign on U.S. Highway near Chester.

Pondera County

Medium Priority

- Promote such educational programs as Firewise.

Toole County

Medium Priority

- Erect or lease a billboard on I-15 with a fire prevention message.
- Erect two fire danger signs along US Highway 2.

OBJECTIVE 3.5 - Enhance effectiveness of response and evacuation.

Blaine County

High Priority

- Develop a County Wildfire-Emergency and All Risk Operations Plan, including a County/Interagency communications plan with cooperators and communities.
- Develop Type III Incident Management Team table of organization utilizing expertise within the county and adjacent counties within the MT State DES Region.

Fort Belknap Reservation

High Priority

- Install fire markers on fences and utility poles to enhance response efforts.
- Install sirens in communities to alert fire fighters to respond.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.5 - Enhance effectiveness of response and evacuation.

Fort Belknap Reservation

Medium Priority

- Construct a heated emergency response building in Lodgepole to house fire tenders and ambulance.

Glacier County

High Priority

- Continue efforts to put smoke alarms in all residences, businesses and facilities.

Hill County

High Priority

- With rural, county and municipal fire departments and County DES with cooperators develop a standardized communication plan for rural fires using available frequencies and cooperator frequencies or repeaters during emergency incidents.
- Develop Type III Incident Management Team table of organization utilizing expertise within the county and adjacent counties with the MT State DES region. Utilize the National Incident Commander.
- Locate and identify roads that have wooden bridges with the County. Plan protection measures and alternate routes in the event of a wildfire compromising or burning these bridges.

Pondera County

High Priority

- Continue efforts to put smoke alarms in all residences, businesses and facilities.

Toole County

High Priority

- Install a fire hydrant at Wilcox Corner on the water line being constructed north of Shelby.

OBJECTIVE 3.6 - Establish mapping or record keeping practices to support fuel management strategies.

Blaine County

High Priority

- Utilize and enforce Blaine County Burning Permit. Examine adjacent county's burning permits and standardize requirements.

Fort Belknap Reservation

High Priority

- GPS rural homes to enhance wildfire protection.

Medium Priority

- Develop GPS database of water sources on reservation to enhance fire fighting efforts.

Hill County

High Priority

- Utilize and enforce Hill Co. Burning Permit requirements. Compare and review neighboring co. burn permits for selection of standardized burn permits.
- Utilize Co. and cooperators expertise for GPS training. Provide incentive for fire fighters and emergency services personnel to attend this training. Practice until proficient with Co. GPS units. Use GPS and other information for Co. Wildland fires.

Medium Priority

- Develop GPS database of water sources for distribution and inclusion in County and municipality fire apparatus.

Liberty County

High Priority

- Obtain maps of the distribution of the CRP acres from the Farm Services Agency to place at the fire halls at the start of each fire season.

Medium Priority

- Coordinate the development of the Community Wildfire Protection Plan with this plan.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 4 - Minimize economic impacts of drought.

OBJECTIVE 4.1 - Identify water retention projects that could lessen the effects of drought.

Glacier County

Medium Priority

- Develop funds and public impetus to improve water intake.

Liberty County

Medium Priority

- Assist the Sage Creek Colony in drilling a new stock watering well.
- Get homes north of Chester on a water system.

Pondera County

Medium Priority

- Develop funds and public impetus to move the city's water intake to the deep pool of Lake Frances.

Toole County

Medium Priority

- Assist Hillside Colony with installing a water well for livestock.
- Increase water storage capacity for Galata Water District for domestic use and firefighting.
- Assist Eagle Creek Colony with installing a water well for livestock to supplement run-off stock water source.
- Assist Camrose Colony with installing a water well for livestock to supplement run-off stock water source.

Low Priority

- Hook up two existing wells into water system of Kevin.

OBJECTIVE 4.2 - Provide education and incentives for minimizing the effects of drought.

Blackfeet Reservation

Medium Priority

- Provide education and awareness to Reservation community on drought.

Liberty County

Low Priority

- Attend meetings and share information about these projects with local governments and potentially affected residents.

Toole County

Low Priority

- Obtain technical expertise to assist the Devon Water System users in obtaining/maintaining an adequate domestic water supply until they can be served by the Rocky Boy Regional Water Authority.

OBJECTIVE 4.3 - Improve drought monitoring and assessments.

Blackfeet Reservation

Medium Priority

- Continue meetings between TERC and Drought Taskforce subcommittee.

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.1 - Provide adequate warning of flooding events.

Blackfeet Reservation

Medium Priority

- Develop evacuation plans, including means of transporting people and evacuation routes.
- Provide NOAA weather radios to residents downstream from dams.
- Develop protocol for notifying Canada in the event of Sherburne Dam breach.
- Implement a flood warning system.
- Install an early warning system to interface with dispatch at Tribal headquarters.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.1 - Provide adequate warning of flooding events.

Blaine County

Medium Priority

- Equip Dry Fork Dam (north of Chinook) with siren system to alert downstream residents of hazard.
- Obtain siren for Dry Fork Dam.

Rocky Boy's Reservation

High Priority

- Provide NOAA weather radios to residents downstream from Bonneau Dam & in Box Elder.
- Develop evacuation plans, including means of transporting people and evacuation routes.

Medium Priority

- Identify alternate location of emergency shelter in Box Elder since current shelter (Box Elder School) is located in floodplain.
- Equip Bonneau Dam with sirens to alert downstream residents of impending breach.
- Install an early warning system on Bonneau Dam to interface with dispatch at Tribal headquarters.

OBJECTIVE 5.2 - Reduce the number of current and future structures in the floodplain.

Blackfeet Reservation

Medium Priority

- Create floodplain ordinances.
- Create planning and zoning guidelines for development within the floodplain.
- Consider mitigation options (including relocation) for homes repeatedly flooded.
- Implement zoning below and around dams.

Blaine County

Medium Priority

- Consider mitigation options for homes repeatedly flooded along Thirtymile Creek.

Glacier County

Low Priority

- Develop land use policies.
- Develop countywide growth plan.

Liberty County

Medium Priority

- After implementing Cottonwood Creek hydraulic projects, work with FEMA to adjust the floodplain boundary and remove property from the floodplain.

Pondera County

Low Priority

- Develop land use policies.
- Develop countywide growth plan.

Rocky Boy's Reservation

High Priority

- Create planning and zoning guidelines for development within the floodplain.
- Create floodplain ordinances.

Medium Priority

- Consider mitigation options for homes repeatedly flooded.

OBJECTIVE 5.3 - Prevent flooding of structures and infrastructure.

Blackfeet Reservation

High Priority

- Consider flood proofing options for critical facilities located in floodplain.

Medium Priority

- Install backflow valves at homes in floodplain.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.3 - Prevent flooding of structures and infrastructure.

Blackfeet Reservation

Medium Priority

- Consider structural projects such as diversions or levees to protect Tribal infrastructure located in floodplain from damage.

Blaine County

High Priority

- Install culverts on sections of road impacted by flooding.

Fort Belknap Reservation

Medium Priority

- Install larger concrete culverts in Lodgepole.
- Install culverts on sections of road impacted by flooding.

Glacier County

Medium Priority

- Install culverts in areas where flooding could cause potential significant losses.

Hill County

Low Priority

- Repair Henry Bridge near Box Elder and eliminate culverts.

Liberty County

High Priority

- Increase the hydraulic capacity of Cottonwood Creek floodway by re-channeling flow through the BNSF reservoir.
- Increase the hydraulic capacity of Cottonwood Creek floodway by removing debris that is impeding water flow.

Medium Priority

- Protect the bridge abutments from water erosion on the county's historic Pubsley Bridge over the Marias River.

Pondera County

Medium Priority

- Install culverts in areas where flooding could cause potential significant losses.

Rocky Boy's Reservation

Medium Priority

- Perform maintenance (clean out wood debris) on drainage systems below dams.
- Consider flood proofing options for Box Elder School located in floodplain.
- Install backflow valves at homes in floodplain.
- Secure propane and/or fuel tanks at homes in floodplain.
- Consider structural projects such as diversions to protect Tribal infrastructure located in floodplain from damage.
- Install larger culverts on sections of road impacted by flooding.

OBJECTIVE 5.5 - Improve the effectiveness of the flood insurance programs.

Blackfeet Reservation

Medium Priority

- Complete floodplain mapping and elevation survey of structures in the floodplain.

Glacier County

Medium Priority

- Conduct educational awareness of NFIP with the general public.

Low Priority

- Map flood prone areas.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.5 - Improve the effectiveness of the flood insurance programs.

Pondera County

Medium Priority

- Conduct educational awareness of NFIP with the general public.

Low Priority

- Map all areas prone to flood.

Rocky Boy's Reservation

High Priority

- Complete floodplain mapping.
- Enter in to National Flood Insurance Program.
- Complete elevation survey of structures in the floodplain.

Toole County

Medium Priority

- Ensure professional administration of the program.
- Resolve status of Sunburst with respect to NFIP.

OBJECTIVE 5.6 - Reduce the risk of dam or levee failure.

Blackfeet Reservation

Medium Priority

- Equip dams with sirens to alert downstream residents of impending breach.
- Install movement sensors on faces of dams to detect pending failure.
- Evaluate structural soundness of dams.

Rocky Boy's Reservation

Medium Priority

- Install movement sensors on face of Bonneau Dam to detect pending failure.

GOAL 6 - Reduce impacts from severe winter weather.

OBJECTIVE 6.1 - Increase community capabilities to mitigate winter weather hazards.

Blackfeet Reservation

High Priority

- Inspect emergency shelters to make sure they are structurally sound to support snow loads.

Medium Priority

- Relocate power underground where possible.
- Negotiate with utility companies for replacement of weak or rotten power poles.
- Identify emergency shelters in each community.
- Obtain generators for schools to maintain power supply during winter.
- Obtain mobile generators for emergency shelters.
- Install markers on fences to determine mileages so peoples residences can be found for rescue purposes.
- Upgrade lighting system at airport.
- Improve communication amongst emergency response and road department during extreme winter weather.
- Develop coordinated management strategies for de-icing roads; plowing snow, clearing roads of fallen trees, and clearing debris .
- Create partnerships with utility companies and negotiate for shorter span distances between power poles to better withstand snow loads and severe storms.

Fort Belknap Reservation

Medium Priority

- Create partnerships with utility companies and negotiate for shorter span distances between power poles to better withstand snow loads and severe storms.
- Inspect emergency shelters to make sure they are structurally sound to support snow loads.
- Install markers on fences to determine mileages so peoples residences can be found for rescue purposes.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 6 - Reduce impacts from severe winter weather.

OBJECTIVE 6.1 - Increase community capabilities to mitigate winter weather hazards.

Fort Belknap Reservation

Medium Priority

- Obtain mobile generators for emergency shelters.
- Construct an indoor maintenance facility for the Tribal Road Department so equipment will be operational when its needed.

Glacier County

Medium Priority

- Emergency plans for special needs facilities.
- Heating systems for special needs facilities.
- Sheltering program.
- Disaster supply kits for special needs facilities.

Pondera County

Medium Priority

- Assist special needs facilities in the development of disaster supply kits.
- Assist special needs facilities in the development of emergency plans.
- Work with special needs populations on alternative heating systems.
- Coordinate with volunteer agencies regarding sheltering during severe weather.

Rocky Boy's Reservation

High Priority

- Create partnerships with utility companies and negotiate for shorter span distances between power poles to better withstand snow loads and severe storms.

Medium Priority

- Install markers on fences to determine mileages so peoples residences can be found for rescue purposes.
- Construct an indoor maintenance facility for the Tribal Road Department so equipment will be operational when its needed.
- Obtain mobile generators for emergency shelters.
- Provide training to Roads Department personnel to enhance coordination during storm events.
- Identify emergency shelters in each community.
- Improve communication amongst emergency response and road department during extreme winter weather.
- Develop coordinated management strategies for de-icing roads; plowing snow, clearing roads of fallen trees, and clearing debris.
- Obtain generators for schools to maintain power supply during winter.
- Structurally analyze all buildings or rooms identified as shelters and strengthen these as necessary.

Low Priority

- Relocate power underground where possible.

Toole County

Medium Priority

- Develop policy and procedures on warning Kevin residents.
- Develop policy and procedures on warning Shelby residents.
- Develop policy and procedures on warning Sunburst residents.
- Identify key facilities in the county and obtain weather radios for each facility.

OBJECTIVE 6.2 - Increase public awareness of winter weather hazards.

Glacier County

High Priority

- Education program for family disaster plan and disaster supply kits.
- Education program on NOAA weather radio.
- Education program on severe weather and its risks.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 6 - Reduce impacts from severe winter weather.

OBJECTIVE 6.2 - Increase public awareness of winter weather hazards.

Pondera County

High Priority

- Promote awareness of NOAA Weather radio.
- Conduct education program for family disaster plan and preparing disaster supply kits.
- Conduct education programs on severe weather and associated risks.

GOAL 7 - Reduce impacts from severe summer weather.

OBJECTIVE 7.1 - Increase community capabilities to mitigate summer weather hazards.

Blackfeet Reservation

High Priority

- Install safety film on windows at critical facilities to prevent shattering of glass.

Fort Belknap Reservation

High Priority

- Obtain shatterproof film for windows at critical facilities.

Rocky Boy's Reservation

Medium Priority

- Install safety film for windows at critical facilities to prevent shattering of glass.

Toole County

Medium Priority

- Purchase and install two additional warning sirens in Shelby.

Low Priority

- Practice and exercise the procedures for warning residents.

GOAL 8 - Reduce losses from hazardous material incidents.

OBJECTIVE 8.1 - Provide education, training on haz-mat incidents and response.

Blackfeet Reservation

Medium Priority

- Plan alternate evacuation routes for instances when trains block intersections.
- Provide hazardous material training to emergency responders.
- Develop an emergency transportation plan that considers key roadways and railroad intersections.

Blaine County

High Priority

- Provide Haz-Mat training to fire departments.
- Develop warning system for train derailments involving hazardous materials.

Medium Priority

- Provide awareness training to county residents on how to respond to train derailments involving hazardous materials.

Low Priority

- Obtain SCBA units for Chinook fire department as a priority and all departments.

Fort Belknap Reservation

Medium Priority

- Provide training to emergency responders on how to deal with methamphetamine labs.
- Develop an emergency transportation plan that considers key roadways and intersections.

Hill County

High Priority

- Provide additional Haz-Mat training to fire departments.

LOCAL MITIGATION PROJECTS

DES DISTRICT 2

GOAL 8 - Reduce losses from hazardous material incidents.

OBJECTIVE 8.1 - Provide education, training on haz-mat incidents and response.

Liberty County

Medium Priority

- Educate residents on their rights related to evacuation, also what they can and should be prepared to bring and what should be left behind.
- Educate people on sheltering-in-place.
- Building on the Evacuation Annex in the Emergency Operations Plan, develop several evacuation scenarios for Chester and plan for them.

Toole County

Medium Priority

- Develop an evacuation plan for Shelby.
- Complete the work on the inside of the County Search and Rescue (SAR) building in Shelby.
- Educate people on sheltering-in-place.

OBJECTIVE 8.2 - Identify and secure hazardous materials locations and transporters.

Fort Belknap Reservation

Medium Priority

- Improve mapping of hazardous materials fixed site locations and common transportation routes.

GOAL 9 - Reduce potential earthquake losses in seismically prone areas.

OBJECTIVE 9.2 - Educate the public in earthquake mitigation and readiness.

Glacier County

Medium Priority

- Assist schools/daycares to protect students from earthquake hazards.

Pondera County

Medium Priority

- Education program of schools and daycares.

OBJECTIVE 9.4 - Implement non-structural mitigation projects to harden State and community assets and infrastructure from seismic hazards.

Glacier County

Medium Priority

- Promote use of shatterproof windows in schools and daycares.
- Promote tie down program for schools and daycares.

Pondera County

Medium Priority

- Tie down program for schools and daycares.
- Shatter proofing of windows in schools and daycares.

GOAL 10 - Reduce the likelihood of communicable disease outbreaks.

OBJECTIVE 10.1 - Reduce losses associated with a human health emergency.

Blaine County

Medium Priority

- Coordinate mosquito control efforts with Fort Belknap.

Fort Belknap Reservation

Medium Priority

- Implement protocol for chemical applications in mosquito breeding grounds.
- Purchase mosquito control equipment to use during public events.
- Provide outreach on how to avoid West Nile Virus exposure.
- Coordinate mosquito control efforts with Blaine and Phillips counties.